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PHASE DIFFERENCE PLATE AND THE SAME PLATE****Derwent Title:** Mfg. polyolefin laminate sheet, useful for phase-difference sheet in LCD -  
by laminating crystalline polymer layer to side(s) of sheet made of non-  
crystalline polyolefin, provides improved uniform thickness [\[Derwent Record\]](#)**Country:** JP Japan**Kind:** A**Inventor:** TSUNASHIMA KENJI;  
HIRAOKA TOSHIHIKO;  
KUROME TAIICHI;**Assignee:** TORAY IND INC  
[News, Profiles, Stocks and More about this company](#)**Published / Filed:** 1993-03-19 / 1991-09-10**Application  
Number:** JP1991000230614**IPC Code:** IPC-7: [B32B 27/32](#); [B32B 7/00](#); [B32B 27/36](#); [B32B 31/18](#); [G02B 5/30](#);**Priority Number:** 1991-09-10 JP1991000230614**Abstract:** PURPOSE: To eliminate the foreign matter such as thermally  
decomposed matter, carbide or waste refuse in a film by laminating  
a specific crystalline polymer film to the surface of a non-crystalline  
polyolefin layer compounded with a specific compound as a cover  
film.CONSTITUTION: A specific crystalline polymer layer is laminated  
to at least the single surface of a specific non-crystalline polyolefin  
sheet with a glass transition temp. Tg of 100°C or higher. The  
crystalline polymer layer is peeled off to form a phase difference  
plate composed of the non-crystalline polyolefin sheet. By this  
constitution, white and black display becomes possible and a liquid  
crystal display device of good display quality free of uneven coloring  
such as rainbow color is obtained.

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**Family:** None**Forward  
References:** **Go to Result Set:** [Forward references \(1\)](#)

PDF	Patent	Pub.Date	Inventor	Assignee	Title
	<a href="#">US6811846</a>	2004-11-02	Ota; Akiho	Yoshino Kogyosho Co., Ltd.	<a href="#">Laminated pla body</a>

**Other Abstract  
Info:** [DERABS C93-128996](#) [DERC93-128996](#)